

ABSTRACT OF THE DISCLOSURE

A punch includes a punch body and a punch head. The punch head includes a first compact layer of cobalt-containing tungsten carbide welded to the punch body, and a second compact layer of cobalt-containing tungsten carbide welded to the first compact layer opposite to the punch body. The first compact layer has a hardness lower than that of the second compact layer, and has a coefficient of expansion greater than that of the second compact layer and smaller than that of the punch body.